Please staple check here

Iowa Department of Natural Resources

Construction Permit Application Form

Confinement Feeding Operations

INSTRUCTIONS:

Prior to constructing, modifying or expanding a confinement feeding operation structure[1], complete Item 3,B (page 2), to verify if a construction permit is needed. To calculate the animal unit capacity (AUC) of the operation, complete Table 1 (page 3.) If a construction permit is required, complete the remainder of this form and have the owner(s) sign it on page 4. Mail to the DNR (see address on page 4) the documents and fees requested in Checklist No. 1 or 2 (pages 9 to 15).

If a construction permit is not needed, some pre-construction requirements may still apply prior to the construction of a formed manure storage structure[2]. See page 4 for DNR contact information.

ITEM 1 – Location and Contact Information (for instructions and an example, see page 11 or 14):

A) Owner: ..... Telephone: .....
Name of operation: .....
Location: .....
(1/4 1/4) (1/4) (Section) (Tier & Range) (Name of Township) (County)

☐ Enclose aerial photo or engineering drawing showing the proposed location of the confinement feeding operation structure[1] and all applicable separation distances, as requested in Attachment 1 (pages 10 or 12). See example of aerial photo on pages 16 to 17, at the end of this form.

☐ I manage or am the majority owner of another confinement feeding operation located within 2,500 feet of the proposed site. NOTE: If you check this box, it is recommended that you first contact DNR-AFO Program staff at 515/281-8868 to verify site adjacency requirements.

B) Contact person. All future correspondence about the operation will be sent to this person:

Name: ..... Title: ..... Telephone: .....
Address: .....
E-mail: ..... Fax: .....

ITEM 2 – Siting Information:

A) Karst Determination: Go to www.IowaDNR.com, select the link to 'Mapping (GIS Interactive)', then check the AFO Siting Atlas. If the site is not located in karst or potential karst, print and enclose the map with the name and location of the site clearly marked. If the site is in karst or potential karst, if you cannot access the map, or if you have questions about this issue, contact a DNR geologist at (515) 242-6848. Check one of the following:

☐ The site is not in karst or potential karst. Include documentation requested in checklist 1 or 2 (pages 9 to 15).

☐ The DNR geologist has verified that the site is in karst. The upgraded concrete standards of 567 IAC 65.15(14)"c" must be used.

B) Alluvial Soils Determination: Go to www.IowaDNR.com, select the link to 'Mapping (GIS Interactive)', then check the AFO Siting Atlas. If the site is not in potential alluvial soils, print and enclose the map with the name and location of the site clearly marked. If the site is in potential alluvial soils, if you cannot access the map, or if you have questions about this issue, contact a DNR geologist at (515) 242-6848. Check one of the following:

☐ The site is not in alluvial soils. Include documentation requested in checklist 1 or 2 (pages 9 to 15).

☐ The DNR geologist has verified that the site is in alluvial soils. Check one of the following:

- ☐ Not in 100-year floodplain or does not require a floodplain permit. Include correspondence from the DNR.
- ☐ Requires floodplain permit. Include Floodplain Permit.

[1] Confinement feeding operation structure = animal feeding operation structure (confinement building, manure storage structure or egg washwater storage structure) that is part of a confinement feeding operation. Manure storage structures include formed and unformed manure storage structures.

[2] Formed manure storage structure = covered or uncovered concrete or steel tanks, and concrete pits below the building.

ITEM 3 – Operation Information

A) This application is for: ☐ a new confinement feeding operation
☐ expansion or modification of an existing confinement feeding operation

Date when first constructed: _____ (only for existing operations)

Date when the last construction was completed: _____ (only for previously unpermitted operations)

Is this also an ownership change? ☐ Yes. ☐ No

B) A construction permit is required if any of the following boxes 1 to 8 is checked:

1. ☐ Constructing or modifying an unformed manure storage structure[3] or constructing, or modifying a confinement building that uses an unformed manure storage structure[3].
2. ☐ Constructing, installing or modifying a confinement building or a formed manure storage structure[2] at an operation, if after construction, installation or expansion the AUC of the operation is 1,000 animal units (AU) or more. This includes a confinement feeding operation that stores manure exclusively in a dry form.
3. ☐ Initiating a change, even if no construction or physical alteration is necessary, that would result in an increase in the volume of or a modification in the manner in which manure is stored in any unformed manure storage structure[3].
4. ☐ Initiating a change, even if no construction or physical alteration is necessary, that would result in an increase in the volume of or a modification in the manner in which manure is stored in a formed manure storage structure[2], if after the change the AUC of the operation is 1,000 AU or more.
5. ☐ Constructing or modifying an egg washwater storage structure or a confinement building at a confinement feeding operation that includes an egg washwater storage structure.
6. ☐ Initiating a change, even if no construction or physical alteration is necessary, that would result in an increase in the volume of or a modification in the manner in which egg washwater is stored.
7. ☐ Repopulating a confinement feeding operation if it was closed for 24 months or more and if any of the following apply: the confinement feeding operation uses an unformed manure storage structure[3] or egg washwater storage structure; the confinement feeding operation includes only confinement buildings and formed manure storage structures[2], and has an AUC of 1,000 AU or more.
8. ☐ Installing a permanent manure transfer piping system, unless the DNR determines that a construction permit is not required.

ITEM 4 – Calculating Animal Unit Capacity and, if applicable, Animal Weight Capacity

A) Calculating Animal Unit Capacity (AUC) – Required for all operations

For each animal species, multiply the maximum number of animals that you would ever confine at one time by the appropriate factor, then add all animal units (AU) together on Table 1 (page 3). Use the maximum market weight for the appropriate animal species to select the AU factor.

You must complete all applicable columns in Table 1. Use column a) to calculate the existing AUC, before permit for existing operations only. Use column b) to calculate the 'Total proposed AUC' (after a permit is issued) including new operations. The number obtained in column b) is the AUC of the operation and must be used to determine permit requirements. Use column c) to calculate the 'New AU' to be added to an existing operation. To calculate the indemnity fee (see page 6), also use column c), however, if the "Existing AUC" (column a) is 500 AU or less, enter the "Total proposed AUC" (column b) in the "New AU" (column c).

In addition, include in Table 1, all animals from any confinement operation that you are the owner or majority owner of or that you manage that is adjacent or that utilizes a common area or system for manure disposal. Two or more operations are “adjacent” if: (a) at least one confinement feeding operation structure[1] is constructed on or after May 21, 1998; and (b) the operations are closer than 1,250 feet to each other at closest point if the operations have a combined AUC of less than 1,000 AU or if the operations are closer than 2,500 feet to each other at closest point and the operations have a combined AUC of 1,000 AU or more. For more information, contact the AFO Program at (515) 281-8941.

[3] Unformed manure storage structure = covered or uncovered anaerobic lagoon, earthen manure storage basin, aerobic earthen structure.

Table 1. Animal Unit Capacity: (No. HEAD) * (FACTOR) = AUC

Animal Species	a) Existing AUC (Before permit)			b) Total Proposed AUC (After permit)		
	(No. Head)	x (Factor)	= AUC	(No. Head)	x (Factor)	= AUC
Slaughter or feeder cattle		1.0			1.0	
Immature dairy cattle		1.0			1.0	
Mature dairy cattle		1.4			1.4	
Gestating sows		0.4			0.4	
Farrowing sows & litter		0.4			0.4	
Boars		0.4			0.4	
Gilts		0.4			0.4	
Finished (Market) hogs		0.4			0.4	
Nursery pigs 15 lbs to 55 lbs		0.1			0.1	
Sheep and lambs		0.1			0.1	
Horses		2.0			2.0	
Turkeys 7lbs or more		0.018			0.018	
Turkeys less than 7 lbs		0.0085			0.0085	
Broiler/Layer chickens 3 lbs or more		0.01			0.01	
Broiler/Layer chickens less than 3 lbs		0.0025			0.0025	
TOTALS:	**a) Existing AUC:**			**b) Total proposed AUC:**		

Note: If the "Existing AUC" (column a) is 500 AU or less, enter the "Total proposed AUC" (column b) in the "New AU" (column c)

c) New AU = b) - a):

(*This is the AUC of the operation*)

B) Calculating Animal weight capacity (AWC) - Only for operations first constructed prior to March 1, 2003

The AWC is needed for the modification or expansion of an operation that was first constructed prior to March 1, 2003, to determine some of the minimum separation distance requirements for construction or expansion.

The AWC is the product of multiplying the maximum number of animals that you would ever confine at any one time by their average weight (lbs) during the production cycle. Then add the AWC if more than one animal species is present (examples on how to determine the AWC are provided in 567 IAC 65.1(455B).)

If the operation was first constructed prior to March 1, 2003, you must complete all applicable columns in Table 2:

Table 2. Animal Weight Capacity: (No. head) * (Avg. weight, lbs) = AWC, lbs

Animal Species	a) Existing AWC (Before Permit)			b) Proposed AWC (After permit)		
	(No. head)	x avg weight	= AWC	(No. head)	x avg weight	= AWC
Slaughter or feeder cattle						
Immature dairy cattle						
Mature dairy cattle						
Gestating sows						
Farrowing sows & litter						
Boars						
Gilts						
Finished (Market) hogs						
Nursery pigs 15 lbs to 55 lbs						
Sheep and lambs						
Horses						
Turkeys 7lbs or more						
Turkeys less than 7 lbs						
Broiler/Layer chickens 3 lbs or more						
Broiler/Layer chickens less than 3 lbs						
TOTALS:	**a) Existing AWC:**			**b) Total proposed AWC:**		

c) New AWC = b) - a):

(This is the AWC of the operation)

ITEM 5 - Submittal requirements (based on type of confinement feeding operation structure[1] and AUC):
Choose the option below that best fits your proposed operation: Option A, B or C.

A) ☐ The proposed confinement feeding operation structure[1] will be or will use a formed manure storage structure[2]. Proceed to B), below, to verify threshold engineering requirements[4] (whether a Professional Engineer or PE is required) and what additional information is required:

B) ☐ Threshold Engineering Requirements[4]: For operations using formed manure storage structures[2] verify if the operation is required to have a Professional Engineer (PE). Using the "Total proposed AUC" from Table 1 on page 3, check one of the following boxes that best describes your operation (you must check one):

1. ☐ A swine farrowing and gestating operation with an AUC of 1,250 AU or more.
2. ☐ A swine farrow-to-finish operation with an AUC of 2,750 AU or more.
3. ☐ A cattle confinement feeding operation (including dairies) with an AUC of 4,000 AU or more.
4. ☐ Other confinement feeding operations with an AUC of 3,000 AU or more.
5. ☐ None of the above.

If you checked box 5 (above), your operation is below threshold engineering requirements[4] and a Professional Engineer (PE) is not required. Complete and sign this form, and submit all documents and fees required in Checklist No. 1 (pages 9-11) to the address at the bottom of this page.

If you checked any of boxes 1 to 4 (above), the operation meets the threshold engineering requirements[4] and a Professional Engineer (PE) is required. Complete and sign this form, and submit all documents and fees required in Checklist No. 2 (pages 12-14) to the address at the bottom of this page.

C) ☐ The proposed confinement feeding operation structure[1], will be or will use an unformed manure storage structure[3] or an egg washwater storage structure. A Professional Engineer (PE) licensed in Iowa is required for any size of operation. Complete and sign this form, and submit all documents and fees required in Checklist No. 2 plus Addendum "A" (pages12-15) to the address at the bottom of this page.

ITEM 6 - Signature

I hereby certify that the information contained in this application is complete and accurate.

Signature of Owner(s): _____ Date: _____

_____ _____

To expedite a decision, ensure that page 1 of this application form is the first page of the application package. Then mail 2 or 3 copies of the documents and fees as requested in Checklist No. 1 or 2, respectively, to the following address:

Iowa DNR
AFO Program
Wallace State Office Building
502 East 9th St.
Des Moines, IA 50319

Questions

Questions about construction permit requirements or regarding this form should be directed to an engineer of the animal feeding operations (AFO) Program at (515) 281-8941 or go to http://www.iowadnr.com (select the link to "Animal Feeding Operations"). To contact the appropriate DNR Field Office, go to http://www.iowadnr.com/fo/index.html.

[4] Threshold engineering requirements apply to the construction or expansion of a formed manure storage structure[2]. Operations that meet or exceed threshold engineering requirements, as explained in Item 5,C (above) are required to submit an engineering report, engineering plans and technical specifications prepared and signed by a professional engineer licensed in Iowa or by an USDA-NRCS Engineer.

ITEM 7

Interested Parties Form

Confinement Feeding Operation

Interest means ownership of a confinement feeding operation as a sole proprietor or a 10 percent or more ownership interest held by a person in a confinement feeding operation as a joint tenant, tenant in common, shareholder, partner, member, beneficiary or other equity interest holder. Ownership interest is an interest when it is held either directly or indirectly through a spouse or dependent child, or both.

INSTRUCTIONS:

Please list all persons (including corporations, partnerships, etc.) who have an interest in any part of the confinement feeding operation covered by this permit application.

Full Name	Address	City/State	Zip

For each name above, please list below all other confinement feeding operations in Iowa in which that person has an interest. Check box "**None**", below, if there are no other confinement feeding operations in Iowa in which the above listed person has an interest.

Operation Name	Location (1/4 1/4, 1/4, Section, Tier, Range, Township, County)	City
☐ **None** [There are no other confinements in Iowa in which the above listed person(s) has or have an interest].		

I hereby certify that the information provided on this form is complete and accurate.

Signature of Owner(s): _____ Date: _____

_____ _____

ITEM 8

Manure Storage Indemnity Fee Form for Construction Permits

Credit fees to: .....

Name of operation: .....

NSTRUCTIONS:

1) Use the 'Total Proposed AUC' from column b), Table 1 (page 3), to select the appropriate fee line in the table below. The 'Total Proposed AUC' is the AUC of the operation.

2) Select the animal specie and row number (see examples). Enter the 'New AU' from column c), Table 1 (page 3). The 'New AU' is the number of AU to be added to an existing operation or being proposed with a new operation. **Note**: If the "Existing AUC" (column a) is 500 AU or less, enter the "Total proposed AUC" (column b) in "New AU" (column c).

3) Multiply the 'New AU' by the appropriate 'Fee per AU'. The resulting number is the indemnity fee due.

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474-542-474A-0431

- Example 1: An existing swine operation is expanding from an 'Existing AUC' of 1,000 AU to a 'Total Proposed AUC' of 1,800 AU, and has previously paid an indemnity fee for the existing 1,000 AU. Calculate the indemnity fee as follows: The 'Total Proposed AUC' is between 1,000 AU and 3,000 AU; the animal specie is other than poultry; enter 800 AU in the 'New AU' column, row 4, and multiply it by $ 0.15:
  (800 AU) x ($ 0.15 per AU) = $ 120.00

- Example 2: An existing poultry operation is expanding from an 'Existing AUC' of 250 AU to a 'Total Proposed AUC' of 2,000 AU and has not paid the indemnity fee for animals housed in the existing buildings. Calculate the indemnity fee as follows: The 'Total Proposed AUC' is between 1,000 AU and 3,000 AU; the animal specie is poultry and the indemnity fee has not previously been paid, enter 2,000 AU in the 'New AU' column on row 3, and multiply it by $0.06:
  (2,000 AU) x ($ 0.06 per AU) = $ 120.00

- Example 3: If you are proposing a new swine confinement feeding operation with a 'Total Proposed AUC' of 3,500 AU, enter 3,500 AU in the 'New AU' column, row 6 and multiply it by $ 0.20:
  (3,500 AU) x ($ 0.20 per AU) = $ 700.00

- Example 4: If you are applying for a construction permit but you are not increasing the AUC of the operation, and has previously paid the applicable indemnity for the animals housed in the existing buildings, there is no indemnity fee due ($ 0.00). If no indemnity fee is due, do not submit this page.

Indemnity Fee Table:

Total Proposed AUC - (After permit) from column b), Table 1	Row	Animal species	New AU - from column c), Table 1	x	Fee per AU	Indemnity Fee
Less than 1,000 AU	1	Poultry		x	$ 0.04 =	
	2	Other		x	$ 0.10 =	
1,000 AU or more to less than 3,000 AU	3	Poultry		x	$ 0.06 =	
	4	Other		x	$ 0.15 =	
3,000 AU or more	5	Poultry		x	$ 0.08 =	
	6	Other		x	$ 0.20 =	

ITEM 8 (Cont.)

Filing Fees Form
for Construction Permits

Credit fees to: .....

Name of operation: .....

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473-542-473A-0431
474-542-474A-0431

INSTRUCTIONS:

1. If the operation is applying for a construction permit enclose a payment for the following:

   ☐ Construction application fee $ 250.00.
   (Note: This fee is non-refundable)

2. A manure management plan must be submitted and you must also pay the following:

   ☐ Manure management plan filing fee $ 250.00
   (Note: This fee is non-refundable)

3. Total filing fees: Add the fees paid in items 1 and 2 (above): $ _____

SUMMARY:

- Manure Storage Indemnity Fee (see previous page) $ .....
  to be deposited in the Manure Storage Indemnity Fee Fund (474)

- Total filing fees (see item 3 on this page) $ .....
  to be deposited in the Animal Agriculture Compliance Fund (473)

TOTAL DUE: $ .....

4. Make check payable to: Iowa Department of Natural Resources or Iowa DNR; and send it along with the construction application documents (See submittal checklist No. 1 or 2, pages 9-15.) Note: Do not send this fee to the county.

ITEM 9

COUNTY VERIFICATION RECEIPT OF DNR CONSTRUCTION PERMIT APPLICATION

This form provides proof that the County Board of Supervisors has been provided with a complete copy of the construction permit application documents (everything except the fees) for the confinement feeding operation:

Owner: _____ Telephone: _____
Name of operation: _____
Location: _____
(1/4 1/4) (1/4) (Section) (Tier & Range) (Name of Township) (County)

Documents being submitted to the county:

- ☐ Construction permit application form: submit items 1 to 9 (see checklist 1 or 2)
- ☐ Attachment 1 - Aerial photos: Must clearly show the location of the proposed confinement feeding operation structure[1] and that all the separation distances are met, including those claimed for points in the master matrix (if applicable).
- ☐ Attachment 2 - Statement of design certification, submit any of the following (see checklist 1 or 2):
  - ☐ Construction Design Statement form
  - ☐ Professional Engineer (PE) Design Certification form
  - ☐ Engineering report, construction plans and technical specifications
  - ☐ In addition, if proposing an unformed manure storage structure[3] or an egg washwater storage structure submit documentation required in Addemdum "A" of this construction application form.
- ☐ Attachment 3 - Manure management plan.
- ☐ Attachment 4 - Master Matrix (if required). You must include supporting documents (see checklist 1 or 2)

THIS SECTION IS RESERVED FOR THE COUNTY

As soon as DNR receives a construction permit application, the DNR will fax your County Auditor a "Courtesy reminder letter" explaining what actions your County Board of Supervisors must complete and the deadlines.

Public Notice is required for **all** construction permit applications, including those applications not required to be evaluated with the master matrix and applications in counties not participating in the Master matrix.

Counties participating in the master matrix: the county's master matrix evaluation and county's recommendation is required for the following cases:

- A new confinement feeding operation that is applying for a construction permit
- An existing confinement feeding operation that was first constructed on or after April 1, 2002 that is applying for a construction permit.
- An existing confinement feeding operation that was first constructed prior to April 1, 2002 that is applying for a construction permit with an animal unit capacity (AUC) is 1,667 animal units (AU) or more.

I have read and acknowledge the county's duty with this construction permit application, as specified in 567 IAC 65.10(455B) and Iowa Code 459.304. On behalf of the Board of Supervisors for:

COUNTY: _____

NAME: _____

TITLE: _____
(**Member of the County Board of Supervisors or its designated official/employee**)

Date: _____, 200_____.

If you do not receive the courtesy reminder letter within a reasonable time, or if you have any questions, please contact the animal feeding operations (AFO) Program at (515) 281-8941 or visit www.IowaDNR.com

DO NOT SUBMIT THIS PAGE

Submittal Checklist No. 1 for Applicant's use only

For operations not required to have a Professional Engineer (below threshold engineering requirements[4]) and utilizing formed manure storage[2]

To expedite the review process, please ensure that the construction permit application form is the first page of the application package. For more information, visit: www.IowaDNR.com and select the link to "Animal Feeding Operations" or call (515) 281-8941.

Mail two (2) copies of the entire construction permit application package, with completed items 1-9 (see below), including Attachments 1 to 3, and if applicable Attachment 4 (page 10) to the address indicated on page 4. Incomplete applications will be returned. Do not mail this checklist. Submit items in the following order:

CONSTRUCTION PERMIT APPLICATION FORM:

☐ **Item 1. Location - completed (page 1). See page 11 for instructions and example on location.**

☐ **Item 2. Siting Information - enclose the necessary documentation (page 1)**

A) **Karst documentation (page 1)**:

- ☐ The site is not in karst. Enclose the map, with the name and the footprint of the operation clearly marked or enclose documentation from the DNR geologist.
- ☐ The DNR geologist has verified that the site is in karst. The upgraded concrete standards of 567 IAC 65.15(14)"c" are being used. The upgraded concrete standards of 567 IAC 65.15(14)"c" are being used. You must also include copy of soils exploration study and soil borings performed by a PE, an NRCS engineer or a qualified organization.

B) **Alluvial soils documentation (page 1)**:

- ☐ The site is not in alluvial soils. Enclose the map, with the name and footprint of the operation clearly marked or enclose documentation from the DNR geologist.
- ☐ If the site is in alluvial soils. Submit one of the following:
  - ☐ a. Include correspondence from DNR showing that the site is not in floodplain or that a flood plain permit is not required.
  - ☐ b. Include a copy of the floodplain permit.

☐ **Item 3. Operation Information - completed (page 2)**

☐ **Item 4. Calculating Animal Unit Capacity and, if applicable, Animal Weight Capacity (pages 2-3)**

- ☐ **Animal Unit Capacity** - complete all applicable columns of Table 1 (page 2).
- ☐ **Animal Weight Capacity** (if applicable) - complete all applicable columns of Table 2 (page 3).

☐ **Item 5. Submittal requirements - completed (page 4)**

☐ **Item 6. Signature - owner must sign the form (page 4)**

☐ **Item 7. Interested Parties Form - completed (both sections) and signed (page 5)**

☐ **Item 8. Fee Forms**

- ☐ Indemnity Fee Form (page 6)
- ☐ Filing Fee Form (page 7)
- ☐ Check with correct fee stapled to front of application form. Make check payable to “Iowa DNR.”

☐ **Item 9. County Verification Receipt** – **completed, dated and signed (page 8).** Note: if manure will be applied in a county other than the county in which the site is located, an additional copy of the manure management plan must be submitted to the other county and a verification of receipt must be submitted.

DO NOT SUBMIT THIS PAGE
ATTACHMENTS:

☐ **Attachment 1 - Aerial photos**: Aerial photos must be submitted that clearly show the location of all existing and proposed confinement feeding operation structures and show at least a one-mile radius around the structures. The photos must either show roads on the north and south or east and west sides of a section (so that a mile distance is apparent), or include a distance scale.

The photo(s) must show that the proposed structures comply with all statutory minimum required separation distances to the objects listed below:

- Residences (not owned by the permit applicant), churches, businesses, schools, public use areas
- Water wells (depends on type)
- Major water sources, wellhead or cistern of an agricultural drainage well or known sinkholes
- Water sources (other than major water sources) or surface intakes of an agricultural drainage well
- Designated wetlands
- Road right-of-way

The separation distance to each of the above objects must be noted with a straight line between the proposed structure(s) and the object. If any of the above objects is not located within one mile from the proposed structures, note the fact on the photo(s) or use additional pages. (Example: "No agricultural drainage wells within one mile.")

All separation distances that are not clearly in excess of the required minimum separation distance must be measured according to 567 IAC 65.11(5) using standard survey methods. Go to the DNR fact sheet page at http://www.iowadnr.com/afo/factsheets.html and select DNR fact sheet "Distance Requirements for Construction" to find the required separation distances. An example aerial photo can also be found on pages 16 to 17. Or, go directly to http://www.iowadnr.com/afo/files/distreq.doc or http://www.iowadnr.com/afo/files/map5.pdf.

Note: If a master matrix is required, the photos must also show that the additional separation distances required for any points claimed in matrix criteria one through ten will be met for the objects listed above. Note the additional separation distance by drawing a straight line between the proposed structures and the matrix item.

☐ **Attachment 1"b" - Written waivers** (if applicable): If the required separation distance to a house, church, business, school, or public use area cannot be met, a waiver from the affected landowner may be obtained. If the required separation distance to the right-of-way cannot be met, a waiver from the state or the political subdivision may be obtained. Waivers must be recorded in the recorder's office of the county to become effective. A copy of the recorded written waiver must be submitted with the application.

☐ **Attachment 1"c" - Secondary containment barrier**: As provided in Iowa Code section 459.310, the separation distance requirements to a major water source; wellhead, cistern of an agricultural drainage well; known sinkhole; water sources (other than major water sources); surface intakes of an agricultural drainage well and designated wetland do not apply if the confinement feeding operation structure[1] is proposed with a secondary containment barrier that meets the requirements of 567 IAC 65.15(17). Contact an AFO engineer at (515) 281-8941 for more information.

☐ **Attachment 2. Statement of design certification** - Submit one of the following:

- ☐ Construction Design Statement (on DNR form 542-8068), completed and signed, if the formed manure storage structure[2] is not designed and sealed by a professional engineer (PE); OR
- ☐ Professional Engineer (PE) Design Certification (on DNR form 542-8122), completed and signed, if the formed manure storage structure[2] will be a site specific design sealed by a professional engineer (PE). This is a voluntary option for a confinement feeding operation that is below threshold engineering requirements[4] and that is not in karst (see Item 2, A).

☐ **Attachment 3. Manure Management Plan** (on DNR Form 542-4000), completed and signed addressing all the requirements set forth in the 567 IAC Chapter 65. However, if the operation is or will be selling all of their dry manure under Iowa Code chapter 200 or 200A, a completed and signed DNR Form 542-8069 must be filed instead.

☐ **Attachment 4. Master Matrix** (567 IAC 65, Appendix C) is required to evaluate a construction permit application except in the following cases:

- ☐ The county where the confinement feeding operation structure[1] is being proposed does not have an adopted 'Construction Evaluation Resolution' (CER); OR

DO NOT SUBMIT THIS PAGE

☐ The operation was first constructed prior to April 1, 2002 and after construction, expansion or modification, the AUC of the operation is 1,666 animal units or less.

If master matrix is required, submit all of the following documents as requested in 567 IAC 65, Appendix C:

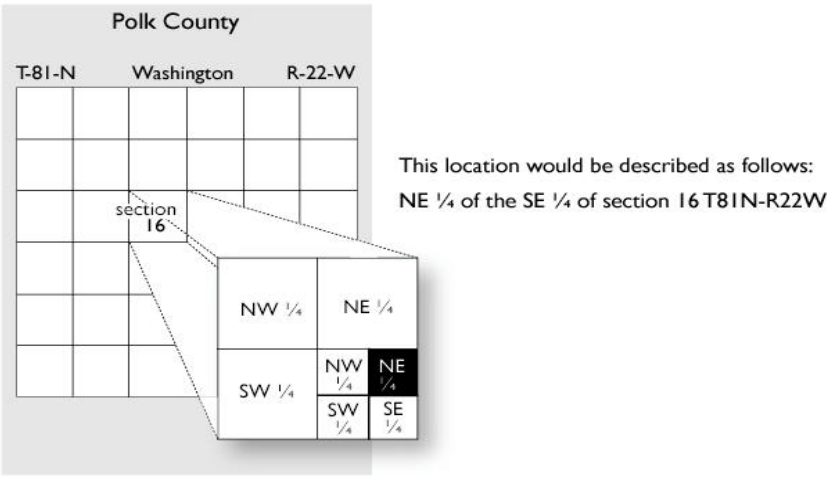
☐ Completed Master matrix, and its supporting documents:

- ❒ A design, operation and maintenance plan is required if points are claimed for each of the following items: 12, 13, 14, 15, 16, 17, 18, 19, 25, 26"b", 26"c", 26"d" or 44.
- ❒ A supporting document must be included if points are claimed for each of the following items: 7, 11, 21, 22, 26"a", 26"e", 27, 28, 29, 30, 31, 32, 33, 34, 37, 38, 40, 41, 42 or 43.
- ❒ All other master matrix items for which points are being claimed, should have supporting documents.

Information about other permits that may be required:

- Storm water permit General permit No. 2, associated with construction activities, is required prior to disturbing one (1) or more acres of land. This includes the clearing, grading and excavation of the confinement feeding operation structures and phased construction. For more information contact the Storm Water Program at (515) 281-6782 or at http://www.iowadnr.com/water/stormwater/index.html.
- A water use permit is required for the withdrawal or diversion of more than 25,000 gallons per day of water. Water purchased from municipal or rural water systems is excluded. For more information, contact Dennis Alt at (515) 725-0275 or visit the following web site: http://www.state.ia.us/epd/wtrsuply/supaps/wperm.htm

Example of location information for Items 1, 7 and 9:



Location	NE	SE	16	T81N - R22W	Washington	Polk
	(¼¼)	(¼)	(Section)	(Tier & Range)	(Name of Township)	(County)

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Submittal Checklist No. 2 for applicant's use only

For operations meeting threshold engineering requirements[4] and utilizing formed manure storage[2]; or operations utilizing unformed manure storage[3] or egg washwater storage

To expedite the review process, please ensure that the construction permit application form is the first page of the application package. For more information, visit: www.IowaDNR.com and select the link to "Animal Feeding Operations" or call (515) 281-8941.

Mail three (3) copies of the construction permit application package, with completed items 1-9 (see below), including Attachments 1 to 3, Attachment 4 (pages 12-14) and Addendum A" (page 15), if applicable, to the address indicated on page 4. Incomplete applications will be returned. Do not mail this checklist. Submit items in the following order:

CONSTRUCTION PERMIT APPLICATION FORM:

☐ **Item 1. Location - completed (page 1). See page 14 for instructions and example on location.**

☐ **Item 2. Siting Information - enclose the necessary documentation (page 1)**

A) **Karst documentation (page 1)**:

- ☐ The site is not in karst. Enclose the map, with the name and the footprints of the operation clearly marked or enclose documentation from the DNR geologist.
- ☐ The DNR geologist has verified that the site is in karst. The upgraded concrete standards of 567 IAC 65.15(14)"c" are being used. You must also include copy of soils exploration study and soil borings performed by a PE, an NRCS engineer or a qualified organization.

B) **Alluvial soils documentation (page 1)**:

- ☐ The site is not in alluvial soils. Enclose the map, with the name and footprints of the operation clearly marked or enclose documentation from the DNR geologist.
- ☐ If the site is in alluvial soils. Submit one of the following:
  - ☐ a. Include correspondence from DNR showing that the site is not in floodplain or that a flood plain permit is not required.
  - ☐ b. Include a copy of the floodplain permit.

☐ **Item 3. Operation Information - completed (page 2)**

☐ **Item 4. Calculating Animal Unit Capacity and, if applicable, Animal Weight Capacity (pages 2-3)**

- ☐ **Animal Unit Capacity** - complete all applicable columns of Table 1 (page 2).
- ☐ **Animal Weight Capacity** (if applicable) - complete all applicable columns of Table 2 (page 3).

☐ **Item 5. Submittal requirements -completed (page 4)**

☐ **Item 6. Signature - owner must sign the form (page 4)**

☐ **Item 7. Interested Parties Form - completed (both sections) and signed (page 5)**

☐ **Item 8. Fee Forms**

- ☐ Indemnity Fee Form (page 6)
- ☐ Filing Fee Form (page 7)
- ☐ Check with correct fee stapled to front of application form. Make check payable to “Iowa DNR.”

☐ **Item 9. County Verification Receipt – completed, dated and signed (page 8).** Note: if manure will be applied in a county other than the county in which the site is located, an additional copy of the manure management plan must be submitted to the other county and a verification of receipt must be submitted.

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ATTACHMENTS:

☐ **Attachment 1 - Engineering drawing**: An engineering drawing must be submitted that clearly show the location of all existing and proposed confinement feeding operation structures and show at least a one-mile radius around the structures. The engineering drawing(s) must either show roads on the north and south or east and west sides of a section (so that a mile distance is apparent), or include a distance scale.

The engineering drawing(s) must show that the proposed structures comply with all statutory minimum required separation distances to the objects listed below:

- Residences (not owned by the permit applicant), churches, businesses, schools, public use areas
- Water wells (depends on type)
- Major water sources, wellhead or cistern of an agricultural drainage well or known sinkholes
- Water sources (other than major water sources) or surface intakes of an agricultural drainage well
- Designated wetlands
- Road right-of-way

The separation distance to each of the above objects must be noted with a straight line between the proposed structure(s) and the object. If any of the above objects is not located within one mile from the proposed structures, note the fact on the drawings or use additional pages. (Example: "No agricultural drainage wells within one mile.")

All separation distances that are not clearly in excess of the required minimum separation distance must be measured according to 567 IAC 65.11(5) using standard survey methods. Go to the DNR fact sheet page at http://www.iowadnr.com/afo/factsheets.html and select DNR fact sheet "Distance Requirements for Construction" to find the required separation distances. An example aerial photo can also be found on pages 16 to 17. Or, go directly to http://www.iowadnr.com/afo/files/distreq.doc or http://www.iowadnr.com/afo/files/map5.pdf.

Note: If a master matrix is required, the engineering drawings must also show that the additional separation distances required for any points claimed in matrix criteria one through ten will be met for the objects listed above. Note the additional separation distance by drawing a straight line between the proposed structures and the matrix item.

☐ **Attachment 1"b" - Written waivers** (if applicable): If the required separation distance to a house, church, business, school, or public use area cannot be met, a waiver from the affected landowner may be obtained. If the required separation distance to the right-of-way cannot be met, a waiver from the state or the political subdivision may be obtained. Waivers must be recorded in the recorder's office of the county to become effective. A copy of the recorded written waiver must be submitted with the application.

☐ **Attachment 1"c" - Secondary containment barrier**: As provided in Iowa Code section 459.310, the separation distance requirements to a major water source; wellhead, cistern of an agricultural drainage well; known sinkhole; water sources (other than major water sources); surface intakes of an agricultural drainage well and designated wetland do not apply if the confinement feeding operation structure[1] is proposed with a secondary containment barrier that meets the requirements of 567 IAC 65.15(17). Contact an AFO engineer at (515) 281-8941 for more information.

☐ **Attachment 2 - Engineering report, engineering plans, and technical specifications**: Prepared and sealed by a professional engineer (PE) licensed in the state of Iowa or a NRCS Engineer:

- **Engineering report** must describe: proposed confinement feeding operation structures[1] and its manure control system; animal unit capacity and animal capacity; daily and yearly manure production estimates; volume of manure storage requirements and storage provided. Include a statement certifying that the proposed confinement feeding operation structures[1] comply with the design standards of Iowa Code section 459 and 567 IAC 65.
- **Engineering plans** must show all dimensions (plan view and cross sectional views as needed) for each proposed confinement feeding operation structure[1], including a USGS topographic map that shows the location of the confinement feeding operation structures[1]. Plans must show the following:
  - For a formed manure storage structure[2], compliance with 567 IAC 65.15(14) "Minimum concrete standards."
  - For an unformed storage structure[3] or an egg washwater storage structure, see "Addendum A" (page 15).
- **Technical specifications** that address the applicable design requirements of 567 IAC 65.
- **Drainage tile certification** statement (signed by a PE or NRCS Engineer), if constructing three (3) or more confinement feeding operation structures[1], indicating that the proposed confinement feeding operation structures will not impede the drainage of established drainage tile lines which cross your property boundary lines, unless measures are taken to reestablish the drainage prior to completion of construction.

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☐ **Attachment 3. Manure Management Plan (on DNR Form 542-4000),** completed and signed addressing all the requirements set forth in the 567 IAC Chapter 65. However, if the operation is or will be selling all of their dry manure under Iowa Code chapter 200 or 200A, a completed and signed DNR Form 542-8069 must be filed instead.

☐ **Attachment 4. Master Matrix** (567 IAC 65, Appendix C) is required to evaluate a construction permit application except in the following cases:

- ☐ The county where the confinement feeding operation structure[1] is being proposed does not have an adopted 'Construction Evaluation Resolution' (CER); OR
- ☐ The operation was first constructed prior to April 1, 2002 and after construction, expansion or modification, the AUC of the operation is 1,666 animal units or less.

If master matrix is required, submit all of the following documents as requested in the master matrix 567 IAC 65, Appendix C:

Completed Master matrix, and its supporting documents:

- ❒ **A design, operation and maintenance plan** is required if points are claimed for each of the following items: 12, 13, 14, 15, 16, 17, 18, 19, 25, 26"b", 26"c", 26"d" or 44.
- ❒ **A supporting document** must be included if points are claimed for each of the following items: 7, 11, 21, 22, 26"a", 26"e", 27, 28, 29, 30, 31, 32, 33, 34, 37, 38, 40, 41, 42 or 43.
- ❒ All other master matrix items for which points are being claimed, should have supporting documents.

Information about additional requirements that may apply:

- A "Qualified Operation" shall only use a manure storage structure that employs bacterial action which is maintained by the utilization of air or oxygen, and which shall include aeration equipment. However, a confinement feeding operation is not required to provide aeration if the operation was constructed prior to May 31, 1995 or if the operation handles manure exclusively in a dry form. A confinement feeding operation is a "Qualified Operation" if any of the following boxes are checked:

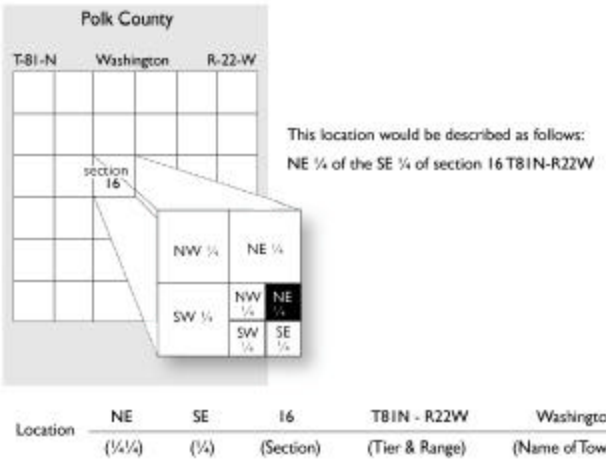
1. • A swine farrowing and gestating operation with an AUC of 2,500 AU or more.
2. • A swine farrow-to-finish operation with an AUC of 5,400 AU or more.
3. • A cattle confinement feeding operation (including dairies) with an AUC of 8,500 AU or more.
4. • Other confinement feeding operations with an AUC of 5,333 AU or more.

Contact the AFO Program at (515) 281-8941 for additional information on the aeration requirements that must be included with the engineering documents.

Information about other permits that may be required:

- Storm water permit General permit No. 2, associated with construction activities, is required prior to disturbing one (1) or more acres of land. This includes the clearing, grading and excavation of the confinement feeding operation structures and phased construction. For more information contact the Storm Water Program at (515) 281-6782 or at http://www.iowadnr.com/water/stormwater/index.html.
- A water use permit is required for the withdrawal or diversion of more than 25,000 gallons per day of water. Water purchased from municipal or rural water systems is excluded. For more information, contact Dennis Alt at (515) 725-0275 or visit the following web site: http://www.state.ia.us/epd/wtrsuply/supaps/wperm.htm

Example of location information for Items 1, 7 and 9:



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Addendum "A" for applicant's use only

Additional information required for unformed manure storage[3] Or egg washwater storage

If the confinement feeding operation proposes to construct, expand or modify an unformed manure storage structure[3] or an egg washwater storage structure; the following information is required:

1. ☐ A soil exploration report that meets the requirements of 567 IAC 65.15(6) must be submitted, and the results of ground water determination that meets 65.15(7)"a" to "c" must be included. Soil corings shall be obtained by a method that identifies the continuos soil profile and must include at least the following information:
   - a) ☐ A minimum of four intact continuous core samples: one to be located within a 50 feet radius of each of the four bottom corners of the unformed manure storage structure[3] or egg washwater storage structure. If the point of deepest excavation is at a point other than a corner, an additional coring shall be located at the point of deepest excavation.
   - b) ☐ One coring shall be obtained at least 25 feet below the lagoon/basin bottom elevation.
   - c) ☐ All other corings shall penetrate to a depth of at least 10 feet below the lagoon/basin bottom.
   - d) ☐ The seven-day water level in all core holes shall be reported and the well construction details shall be identified.
   - e) ☐ The location and surface elevation of all corings shall be identified.
   - f) ☐ All corings have been properly plugged, upon abandonment.
   - g) ☐ PE certification on the soils exploration report.
2. ☐ If a permanent artificial groundwater lowering system as provided in 567 IAC 65.15(7)"b", is being proposed for the unformed manure storage structure[3] or egg washwater storage structure, detailed engineering plans and calculations that show it will effectively lower the GW table, must be submitted for review and approval.
3. ☐ A minimum separation of 2 feet must be maintained between the proposed bottom elevation of the unformed manure storage structure[3] or egg washwater storage structure and the groundwater table; or a synthetic liner must be installed. Submit detailed engineering plans, including cross sectional and longitudinal views.
4. ☐ Construction of an unformed manure storage structure[3] or egg washwater storage structure on an area that exhibits karst (as defined in 567 IAC 65.1(455B)) is prohibited in accordance to 567 IAC 65.15(8).
5. ☐ Construction of an unformed manure storage structure[3] or egg washwater storage structure on the 100-year flood plain of a major water source is also prohibited in accordance to 567 IAC 65.8(3)"e"(2).
6. ☐ Flooding Protection is provided in accordance to 567 IAC 65.15(10).
7. ☐ The proposed seal of the unformed manure storage structure[3] or egg washwater storage structure will not allowed for a seepage that exceed 1/16 inch/day at the design depth in accordance to 567 IAC 65.15(11).
8. ☐ The proposed liner of the unformed manure storage structure[3] or egg washwater storage structure is being proposed in accordance to 567 IAC 65.15(12). Submit detailed engineering plans.
9. ☐ The proposed anaerobic lagoon is being proposed to meet 567 IAC 65.15(13). Submit detailed engineering plans and calculations.
10. ☐ Berm erosion control measurements for the proposed unformed manure storage structure[3] or egg washwater storage structure meet or exceed 567 IAC 65.15(15). Submit detailed engineering plans.
11. Mail 3 copies of the information requested in this Addendum, at the address indicated on page 4.

For questions or for more information, visit: www.IowaDNR.com and select the link to "Animal Feeding Operations" or call (515) 281-8941.

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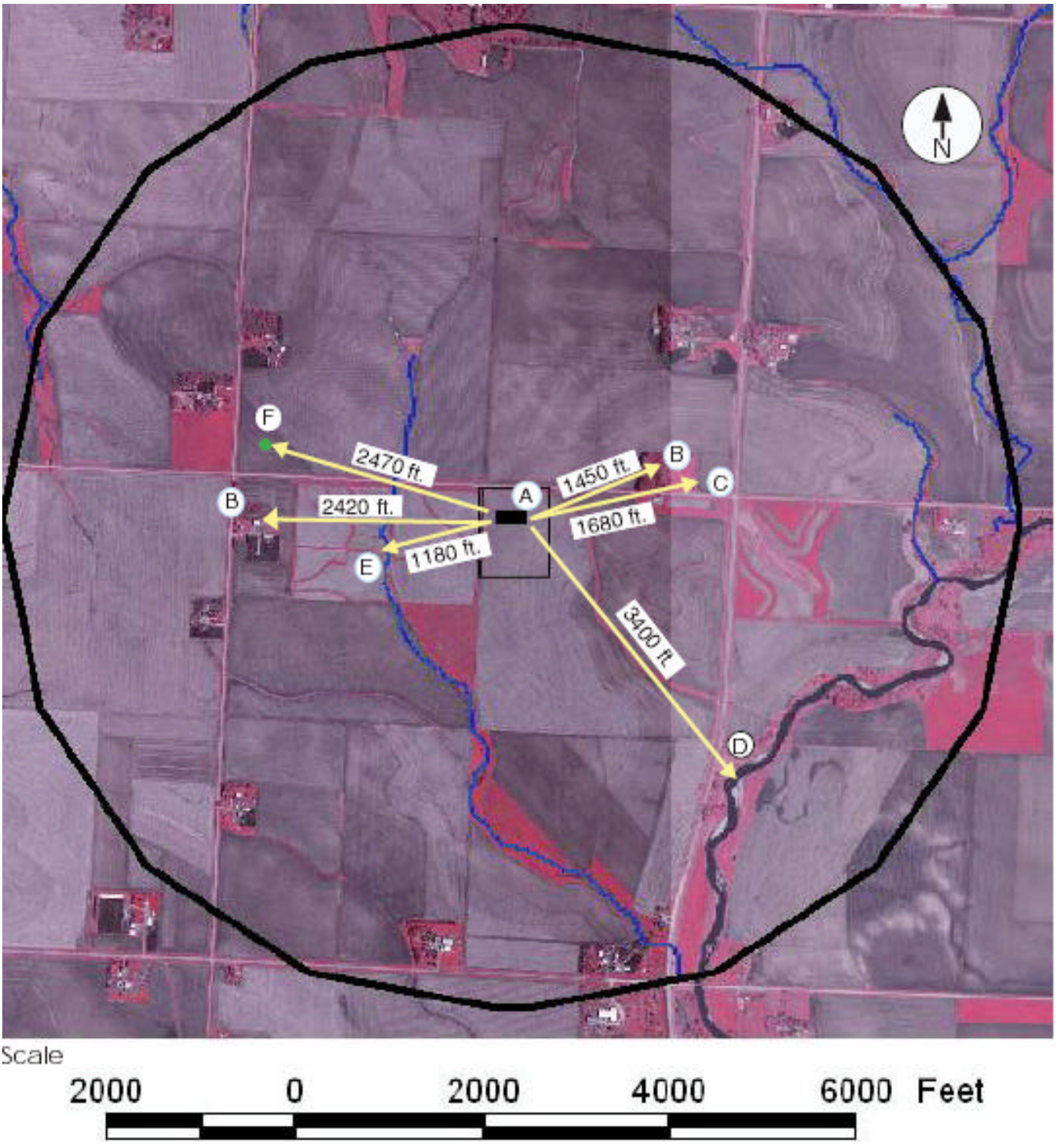
DNR Example Aerial Photo and Map
Showing Separation Distances for Construction or Expansion of Confinements

Instructions: Please indicate the scale of the aerial photo or map. Please label and show the distances to the objects that have a required separation distance. Indicate a one-mile radius from the proposed site. See the Construction Permit Application and Manure Management Plan forms for complete instructions.



Aerial Photo 1: One-Mile Radius Aerial Photo with Relevant Separation Distances

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Key for Aerial Photo 1

Confinement Building

A Site and building location.
B Distances to nearest residences – 1450 and 2420 ft. (No business, school, church or public area within one mile)
C Distance to nearest private well – 1680 ft.
D Distance to a major water source – 3400 ft.
E Distance to a water source – 1180 ft.
F Distance to nearest sinkhole - 2470 ft.

There are no ag drainage wells, surface intakes of ag drainage well or designated wetlands within one mile of the site.

Map 1: Small Scale Map to Show Road ROW Separation Distance

If the map scale with the one-mile radius is too small to show some distances, you can add an extra label, or draw a map with a different scale. For example, see below.